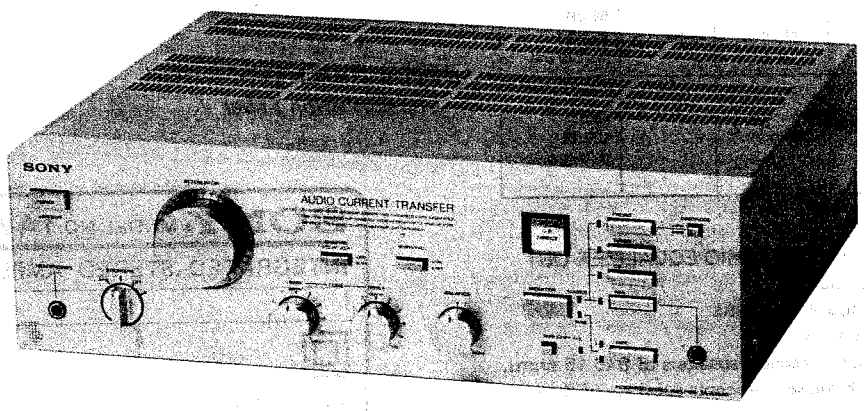
TA-AX500

US Model
AEP Model
UK Model
E Model



INTEGRATED STEREO AMPLIFIER

SPECIFICATIONS

Amplifier section

Audio Power Specifications

US model:

Power output and total harmonic distortion:
With 8 ohm loads, both channels driven, from 20–20,000 Hz; rated 80 watts per channel minimum RMS power, with no more than 0.008% total harmonic distortion from 250 milliwatts to rated output.

Continuous RMS power output

AEP model	UK model	E model
90 + 90 watts (1 kHz, 0.008% THD, at 8 ohms)	100 + 100 watts (1 kHz, 0.008% THD, at 6 ohms)	Music power: 300 watts (1 kHz, 0.1% THD, at 6 ohms)
80 + 80 watts (20 Hz–20 kHz, 0.008% THD, at 8 ohms)	80 + 80 watts (20 Hz–20 kHz, 0.008% THD, at 8 ohms)	100 + 100 watts (1 kHz, 0.008% THD, at 6 ohms)
80 + 80 watts (According to DIN 45500, 0.008% THD, at 8 ohms)		80 + 80 watts (20 Hz–20 kHz, 0.008% THD, at 8 ohms)

Power bandwidth (IHF)	5 Hz–50 kHz (40 watts output, 8 ohms, 0.02% THD)
Dynamic headroom	1.8 dB (8 ohms, '78 IHF)
Harmonic distortion	Less than 0.008% at rated output (8 ohms)
Intermodulation (IM) distortion (60 Hz : 7 kHz = 4 : 1)	Less than 0.008% at rated output (8 ohms)
Dynamic range	TUNER, AUX, CD, TAPE 1, 2, GRAPHIC EQUALIZER IN : 120 dB PHONO MM : 82 dB
Channel separation (at 1 kHz)	TUNER, AUX, CD, TAPE 1, 2, GRAPHIC EQUALIZER IN : 84 dB
Frequency response	PHONO : RIAA equalization curve ±0.2 dB TUNER, AUX, CD, TAPE 1, 2, GRAPHIC EQUALIZER IN : 5 Hz–100 kHz $^{+0}_{-3}$ dB (AEP model) 5 Hz–150 kHz $^{+0}_{-3}$ dB (UK, E, US models)
Residual noise	Less than 25 μV (8 ohms, network A)
Damping factor	50 (8 ohms, 1 kHz)

— Continued on page 2 —

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MICROFILM

SONY®
SERVICE MANUAL

Inputs

	Setting of the CARTRIDGE switch	Sensitivity	Impedance	Maximum input capability (1 kHz)	S/N (weighting network, input level)
PHONO	MM	2.5 mV	50 k ohm	150 mV	88 dB 86 dB* (A, 2.5 mV)
	MC	170 μV	100 ohm	8 mV	68 dB 75 dB* (A, 170 μV)
TUNER, AUX, CD TAPE 1, 2 GRAPHIC EQUALIZER IN	—	150 mV	50 k ohm	—	98 dB 100 dB* (A, 150 mV)

* '78 IHF

Outputs
REC OUT 1, 2, GRAPHIC EQUALIZER OUT
Voltage 150 mV
Impedance 4.7 k ohms
SPEAKER A, B
AEP model: Accepts speakers of 8 to 16 ohms.
US, UK, E model: Accepts speakers of 6 to 16 ohms.
HEADPHONES
Accepts low and high impedance headphones.

Tone controls
BASS
±10 dB at 60 Hz (turnover freq. 300 Hz)
TREBLE
±8 dB at 25 kHz (turnover freq. 5 kHz)

Subsonic filter
6 dB/octave attenuation below 15 Hz

General

System
Integrated stereo amplifier
Power amplifier section
Legato linear, pure-complementary, SEPP OCL dc power amplifier with all stages direct coupled
Preamplifier section
Equalizer section: Low-noise high-gain equalizer amp
Audio Current Transfer section: Bridge-balance type voltage-to-current converter
FET buffer power supply

Power requirements
US model:
120 V ac, 60 Hz
AEP model:
220 V ac (or 240 V ac adjustable by authorized Sony personnel), 50/60 Hz
UK model:
240 V ac (or 220 V ac adjustable by authorized Sony personnel), 50/60 Hz
E model:
120, 220 or 240 V ac adjustable, 50/60 Hz

Power consumption
US model: 162 watts
AEP, E model: 200 watts
UK model: 170 watts

AC outlets
AEP model: 1 switched, 100 watts max.
US, E model: 2 switched, total 100 watts max.
1 unswitched, 100 watts max.

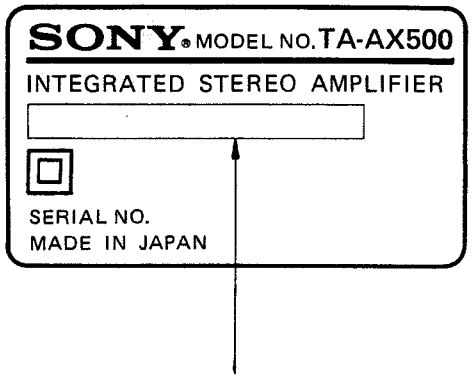
Dimensions
Approx. 430 x 130 x 365 mm (w/h/d)
(17 x 5 1/8 x 14 3/8 inches)
including projecting parts and controls

Weight
Approx. 11 kg (24 lbs 5 oz) net
Approx. 12.4 kg (27 lbs 6 oz) in shipping carton

*Specification values are measured at 30 dB attenuator, except those of residual noise and inputs.

MODEL IDENTIFICATION

— Specification Label —



US model: AC 120 V 60 Hz 162 W
AEP model: AC 220 V 50/60 Hz 200 W
UK model: AC 240 V 50/60 Hz 170 W
E model: AC 120, 220 or 240 V 50/60 Hz 200 W

FEATURES

Audio current drive amplifier
An unusual current transfer circuit design keeps the preamplifier and power amplifier stages electrically separate, thus equalling the quality of separate amplifiers.

Legato linear power amplifier stage
The operation of the power amplifier stage is stable without any observable distortion up through the higher frequencies. We call this power amplifier "legato linear", because its switching distortion is very low and its output waveform smooth.

Wide dynamic range of 120 dB
The use of Audio Current Transfer technique and legato linear power amplifier stage has made the amplifier's dynamic range as wide as 120 dB in actual use. This assures high-quality reproduction of digital audio sources.

CD DIRECT switch for pure CD sound reproduction
When you press the CD DIRECT switch, all circuits which are not necessary for CD playback are bypassed and you can enjoy pure digital sound.

Accepts either of the two types of cartridge
The high-gain equalizer amplifier stage using low-noise transistors accepts both moving-coil and moving-magnet cartridges.

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

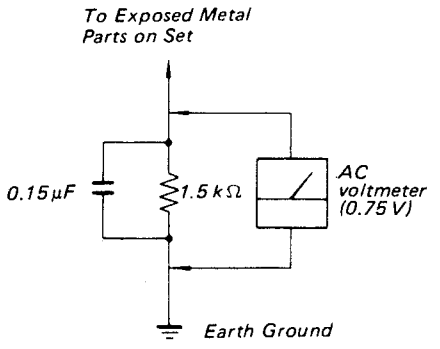
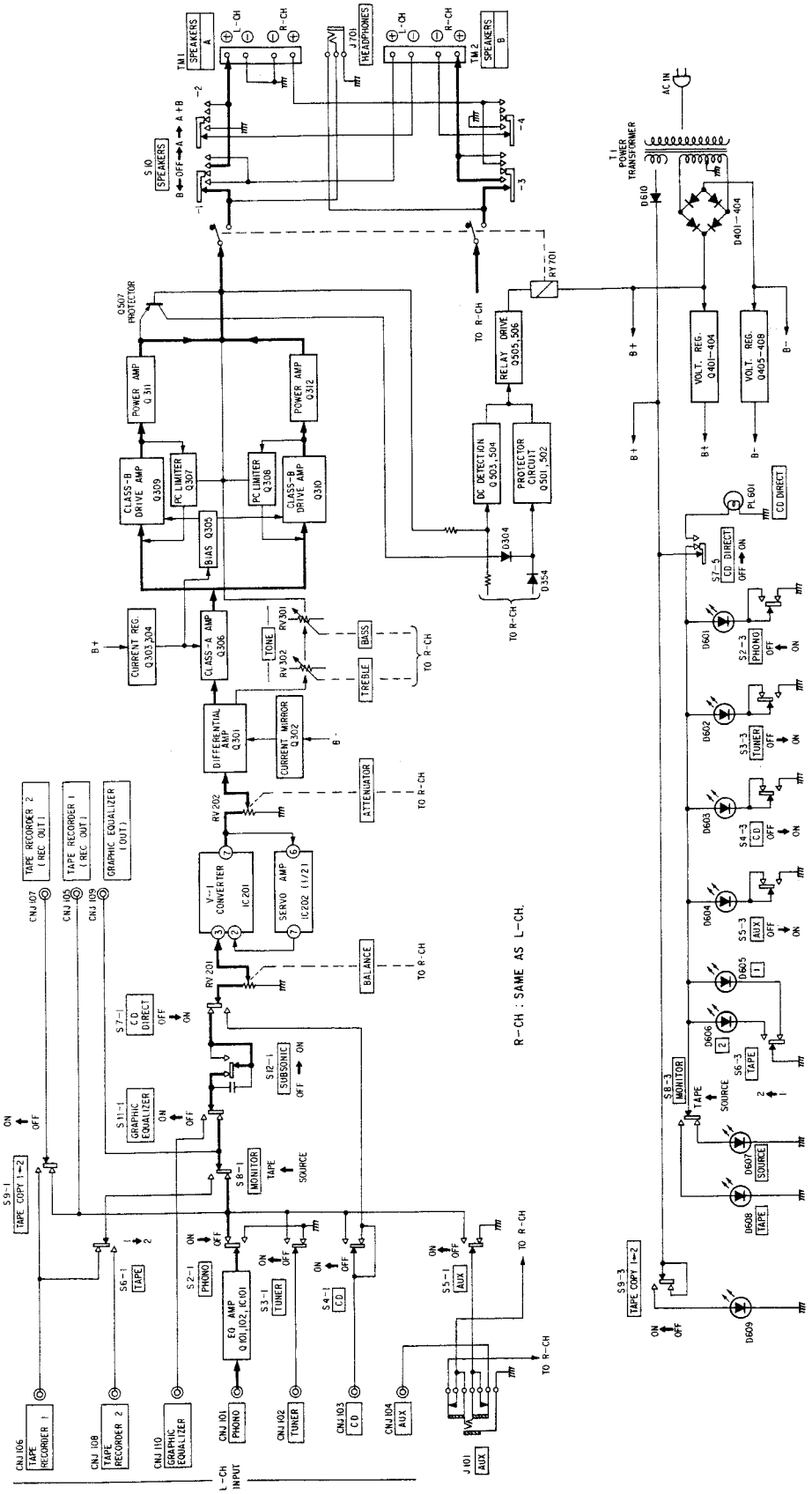


Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM



SECTION 2
DISASSEMBLY

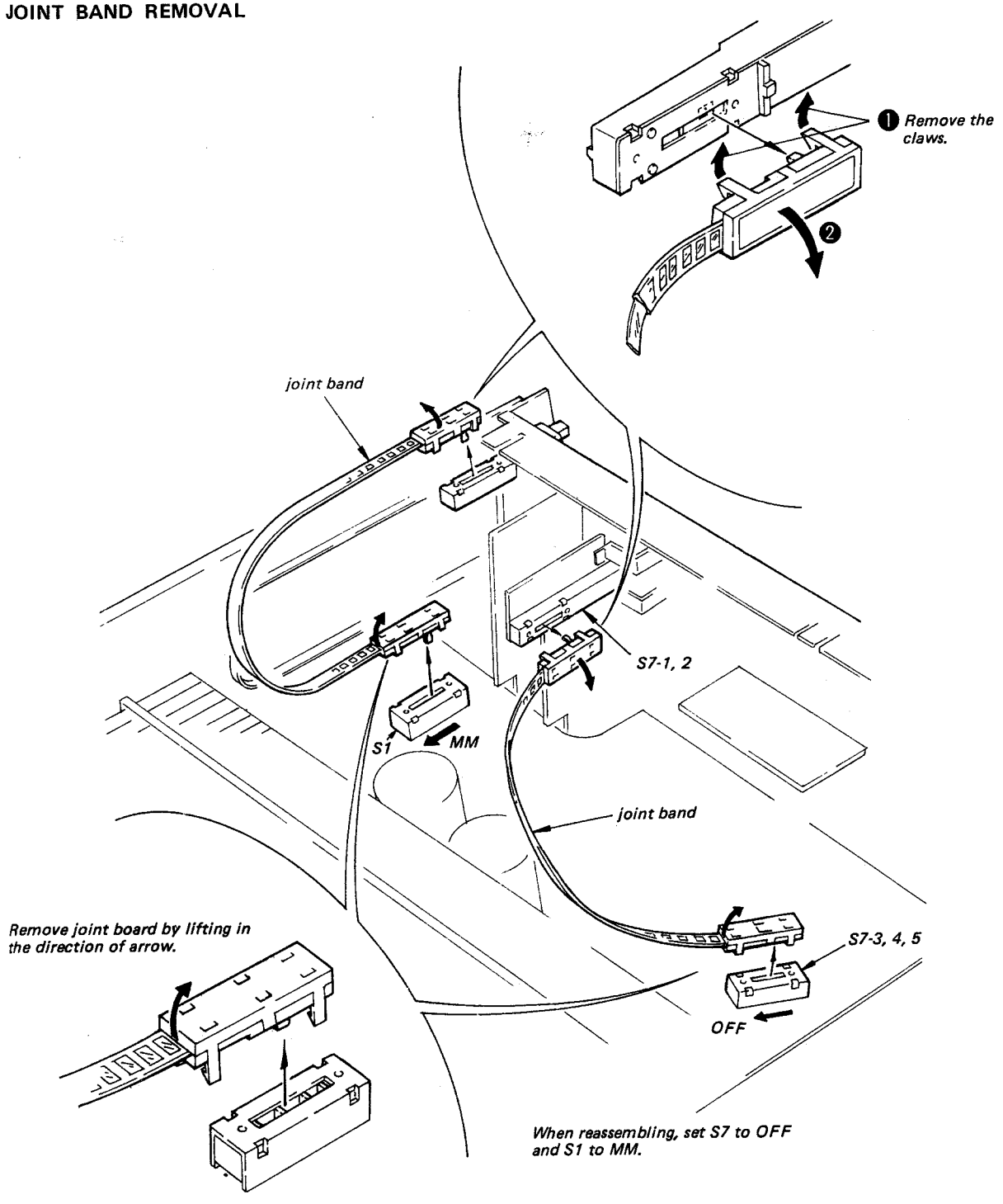
CASE REMOVAL

Remove case by taking out four screws securing case.

BOTTOM CASE REMOVAL

Remove bottom case by loosening eleven BVTT 3 x 6 securing bottom case.

JOINT BAND REMOVAL



SECTION 3
ADJUSTMENTS

3-1. ELECTRICAL ADJUSTMENTS

Note:

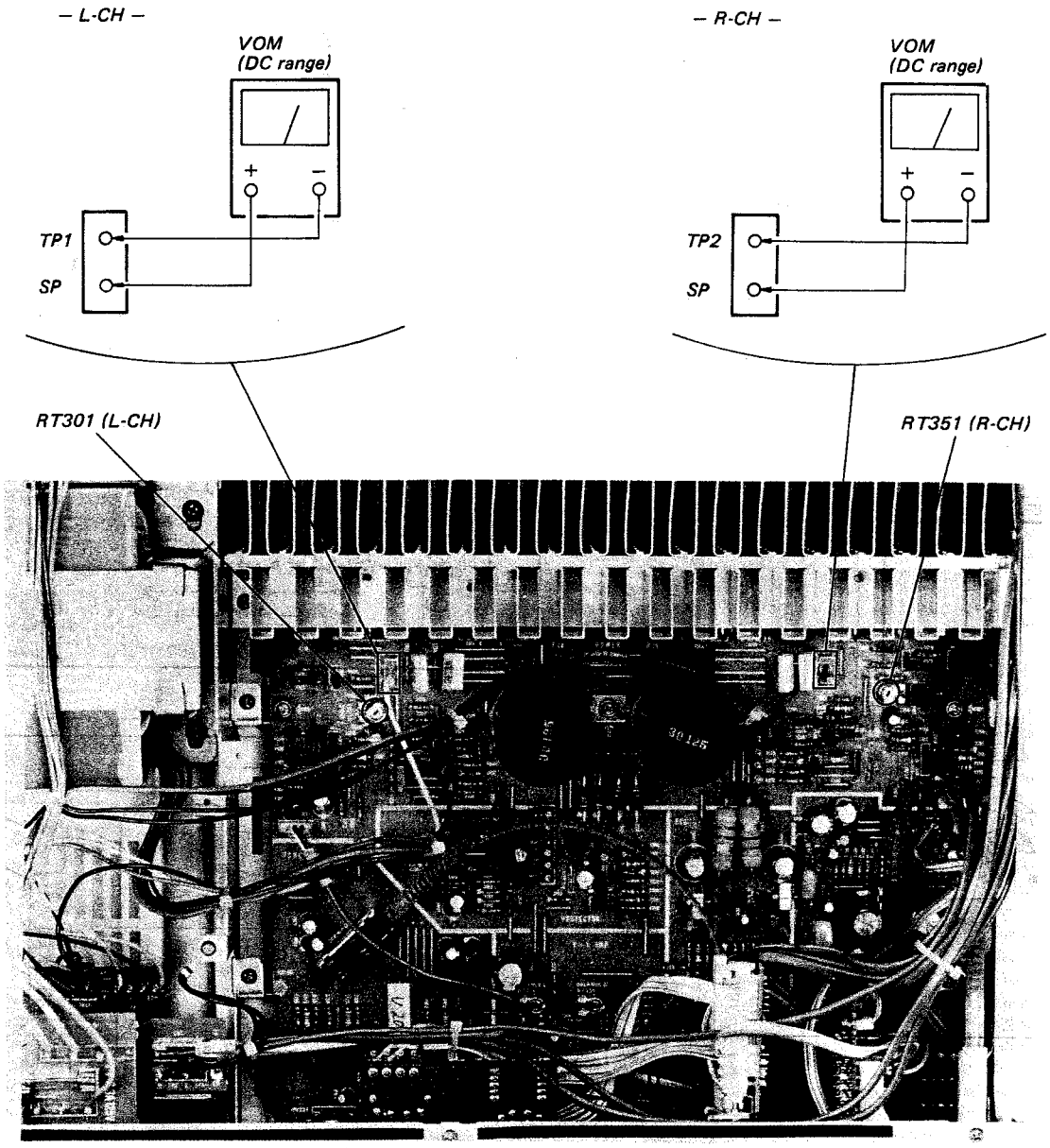
1. DC BIAS and DC BALANCE adjustments should be made several minutes after the POWER switch is turned on (POWER ON.).
2. Make DC BIAS adjustment first.
3. Repeat DC BIAS and DC BALANCE adjustments two or three times.
4. After replacing the power transistor, DC BIAS and DC BALANCE adjustment should be made.

DC Bias Adjustment (with no signal input)

Procedure:

Adjust RT301 (L-CH) and RT351 (R-CH) for 5 mV reading on the VOM.

Adjustment Location:



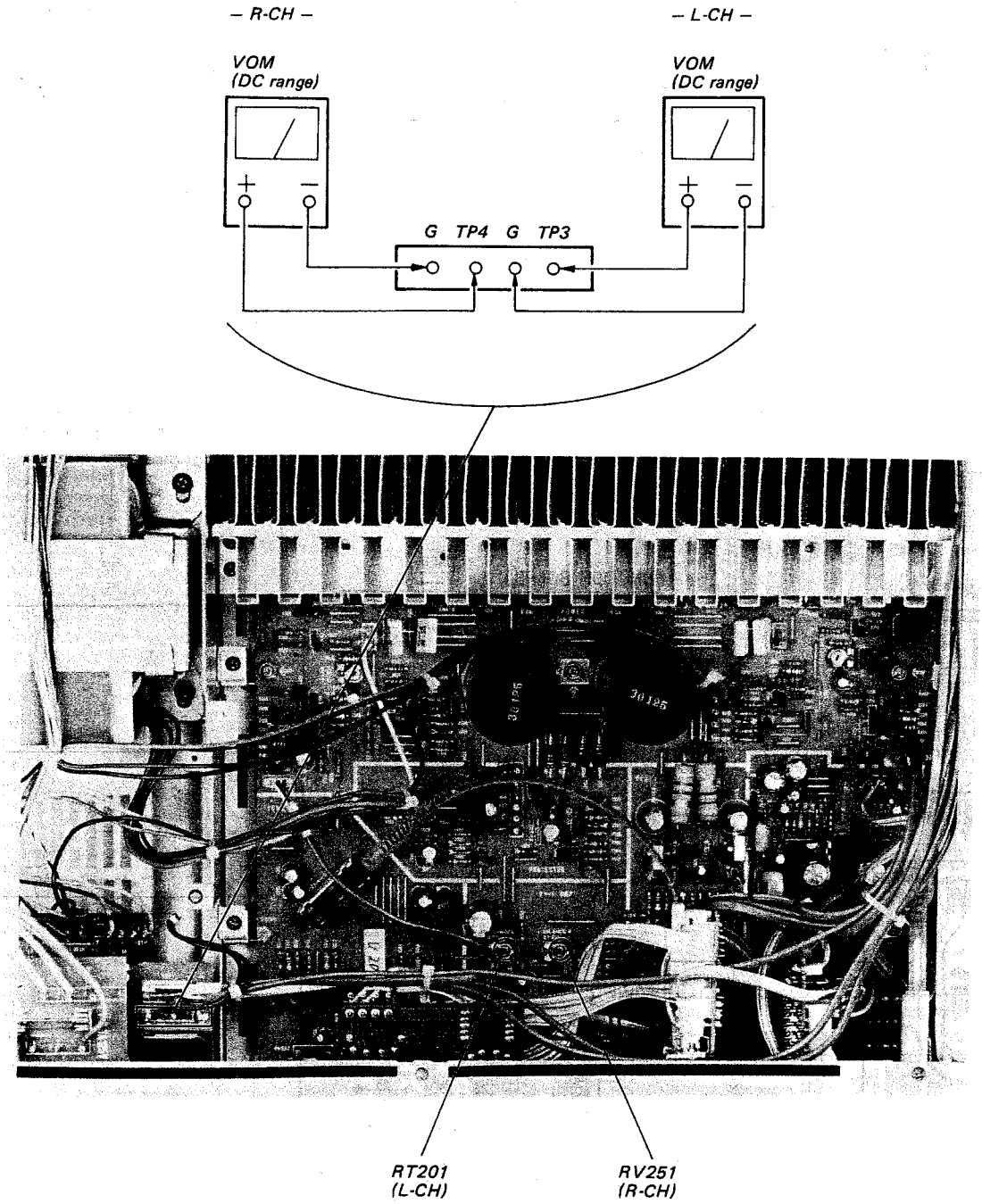
DC Balance Adjustment (with no signal input)

SETTING:
ATTENUATOR knob: MAX

Procedure:

Adjust RT201 (L-CH) and RT251 (R-CH) for 0 mV reading on the VOM.

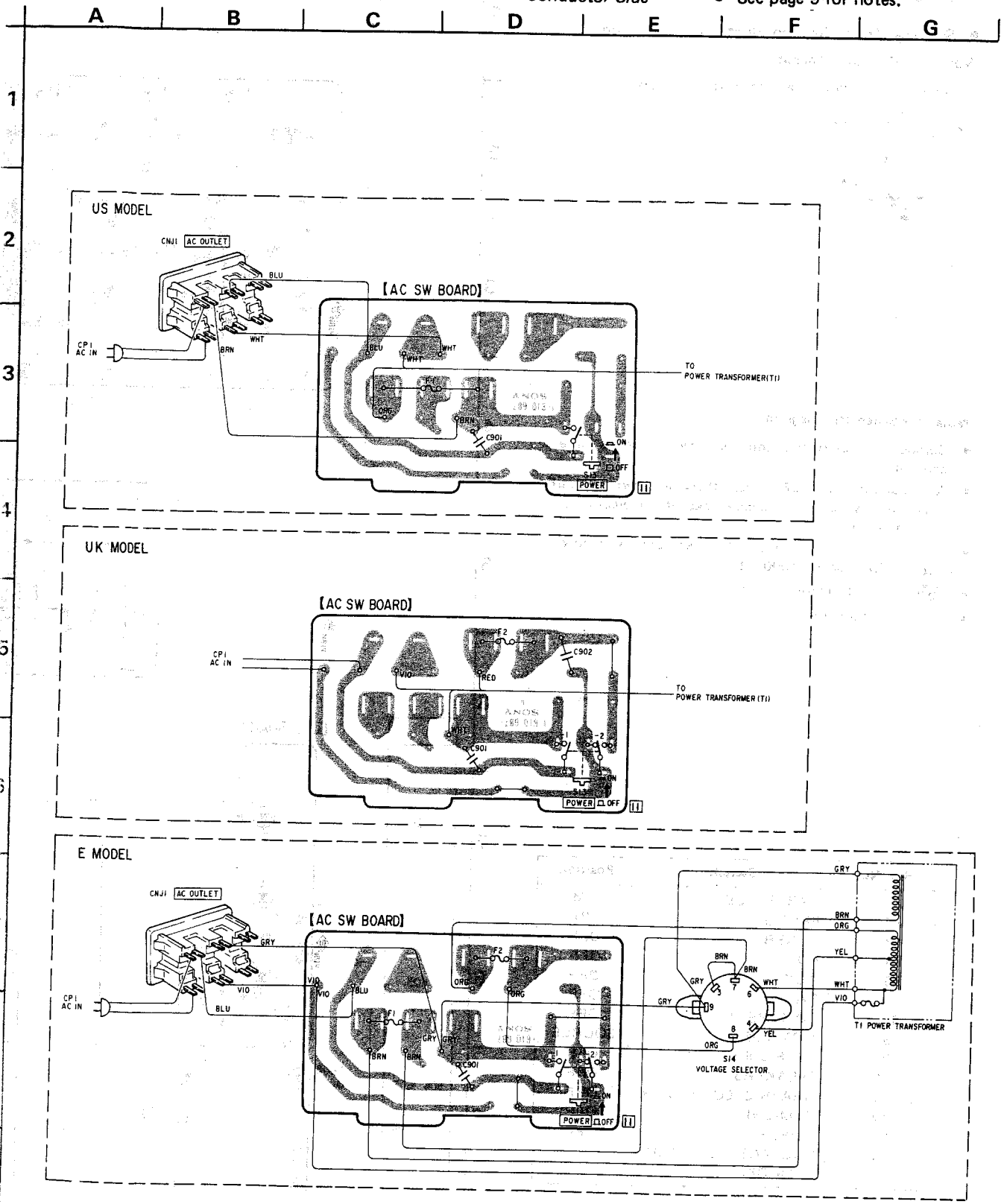
Adjustment Location:



SECTION 4
DIAGRAMS

4-1. MOUNTING DIAGRAM —Power Supply Section — — *Conductor Side* —

● See page 9 for notes.

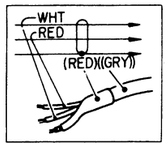


4-2. MOUNTING DIAGRAM

- See page 8 for mounting diagram of primary-side power supply section for US, UK, E model.
- See page 18 for Semiconductor Lead Layouts.

Note: for Mounting Diagram

- Color code of sleeving over the end of the jacket.



- : B + pattern
- : B – pattern
- : signal path
- : L-CH signal path
- : R-CH signal path

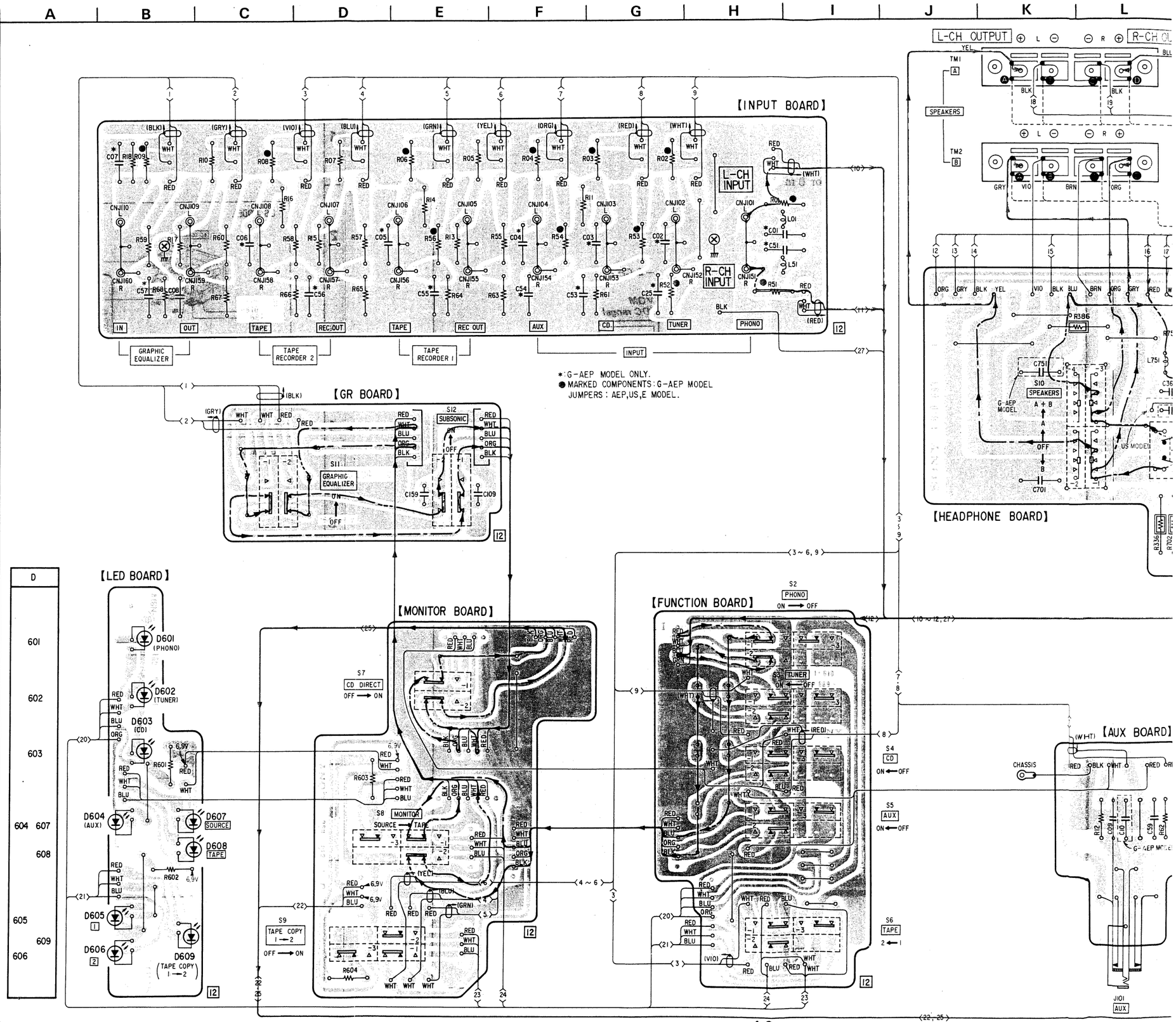
Note: for Schematic Diagram

- Components for right channel have same values as for left channel.
- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ
- : nonflammable resistor.
- : **signal path**
- : adjustment for repair.
- : B+ bus.
- : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM.
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S1	CARTRIDGE	MM
S2	PHONO	ON
S3	TUNER	OFF
S4	CD	OFF
S5	AUX	OFF
S6	TAPE	OFF
S7	CD DIRECT	OFF
S8	MONITOR	SOURCE
S9	TAPE COPY 1→2	OFF
S10	SPEAKERS	OFF
S11	GRAPHIC EQUALIZER	OFF
S12	SUBSONIC	OFF
S13	POWER	OFF
S14	VOLTAGE SELECTOR (E MODEL)	——

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Voltages are measured with a VOM (50kΩ/V).



L M N O P Q R S T U V W X Y Z A1

1 2 3 4 5 6 7 8 9 10

R-CH OUTPUT

G-AEP MODEL

【OUTPUT BOARD】

【OUTPUT BOARD】

【MAIN BOARD】

【VR BOARD】

【AUX BOARD】

【AC SW BOARD】

AEP,G-AEP MODEL

CHASSIS

HEADPHONES

CARTRIDGE

ATTENUATOR

BALANCE

TREBLE — TONE — BASS

CD DIRECT

POWER

AUX

AC OUTLET

TRANSFORMER POWER

4-3. SCHEMATIC DIAGRAM

• See page 9 for notes.

• See page 17 for schematic diagram of primary-side power supply section for US, UK, E model.

P Q R S T U V W X Y Z A1 B1 C1 D1

1 2 3 4 5 6 7 8 9 10 11

Q303 2SC1815 Q304 2SA1142 — CURRENT REG.
Q305 2SD809 Q306 2SC2682 — BIAS / CLASS-A AMP
Q307 2SC1364 Q308 2SA1026 — PC LIMITER
Q309 2SC2690A Q310 2SA1220A — CLASS-B DRIVE AMP
Q311 2SC3182 Q312 2SA1265 — POWER AMP

Q301 2SA979 DIFFERENTIAL AMP
Q302 2SC1815 CURRENT MIRROR
G-AEP MODEL
【VR BOARD】
D301 IS953
D302 HZ6A2L
Q507 2SA1015 PROTECTOR
D303,304 IS953
DC BIAS (L)
S7-3 CD DIRECT OFF → ON
TP3
TP1
SP
【HEADPHONE BOARD】
S10 SPEAKERS B ← OFF → A → A+B
J701 HEADPHONES
【OUTPUT BOARD】
SPEAKERS
L-CH
R-CH
TM1 A
TM2 B
US MODEL
AEP,G-AEP,UK E MODEL
ATTENUATOR
DC BALANCE (L)
DC BALANCE (R)
TREBLE — TONE — BASS

Q351 2SA979 DIFFERENTIAL AMP
Q352 2SC1815 CURRENT MIRROR
D351 IS953
D201,251 IS953
S7-4 CD DIRECT OFF → ON
TP4
TP2
D352 HZ6A2L
Q557 2SA1015 PROTECTOR
D353,354 IS953
D304
S7-5 CD DIRECT OFF → ON

Q353 2SC1815 Q354 2SA1142 — CURRENT REG.
Q355 2SD809 Q356 2SC2682 — BIAS / CLASS-A AMP
Q357 2SC1364 Q358 2SA1026 — PC LIMITER
Q359 2SC2690A Q360 2SA1220A — CLASS-B DRIVE AMP
Q361 2SC3182 Q362 2SA1265 — POWER AMP

D504 IS953 AEP MODEL
Q505,506 2SC1815 RELAY DRIVE
D503 IS953
D502 HZ6A2L
RY701
US,G-AEP,UK,E MODEL
Q501 2SC1364 Q502 2SA1026 Q503,504 2SC1815
PROTECTOR CIRCUIT — DC DETECTION
D501 10E2 RECT
US MODEL
AEP,G-AEP,UK E MODEL
【AC SW BOARD】
AEP,G-AEP MODEL
AC OUTLET
*: NOT REPLACEABLE: BUILT IN TRANSFORMER

【FUNCTION BOARD (1/3)】
S6-3 TAPE 2 1
S5-3 AUX ON OFF
S4-3 CD ON OFF
S3-3 TUNER ON OFF
S2-3 PHONO ON OFF
D606 [2] D605 [1] D604 (AUX) D603 (CD) D602 (TUNER) D601 (PHONO)
D601 — 608 GL5EG521

Q401 2SD809 VOLT. REG.
Q402 2SC1815 VOLT. REG.
Q403 2SK246 VOLT. REG.
Q404 2SC1815 VOLT. REG.
Q405 2SA1015 VOLT. REG.
Q406 2SK246 VOLT. REG.
Q407 2SA1015 VOLT. REG.
Q408 2SB731 VOLT. REG.
PL601 8V,75mA CD DIRECT
D401—404 30DL4 RECT
PS601 ICP-F38
D610 10E2 RECT

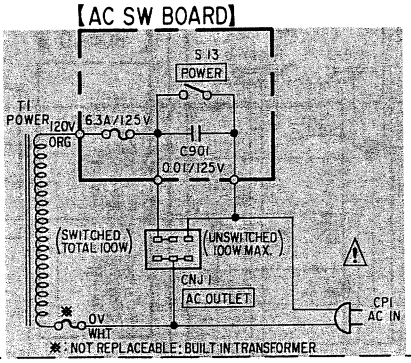
4-4. SCHEMATIC DIAGRAM – Power Supply Section –

• See page 9 for notes.

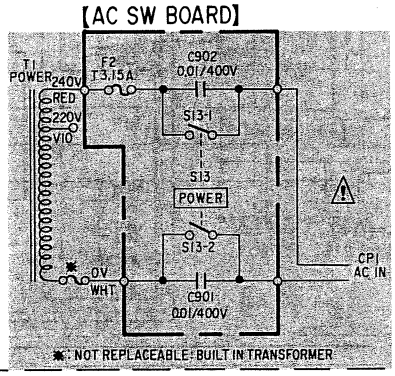
A B C D E F G

1 2 3 4 5 6 7 8 9 10

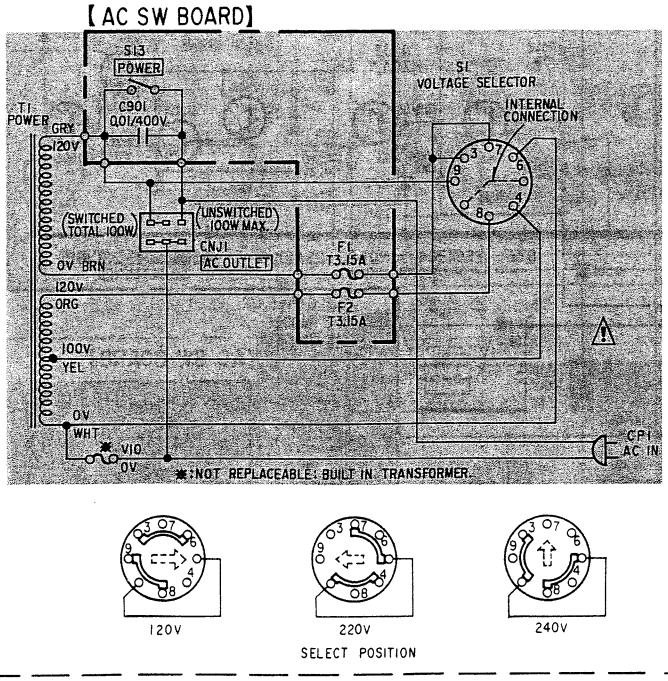
US MODEL



UK MODEL

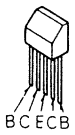


E MODEL

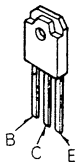


- **Semiconductor Lead Layouts**

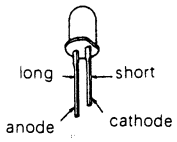
2SA979



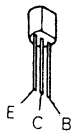
2SA1265
2SC3182



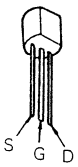
GL5HD21



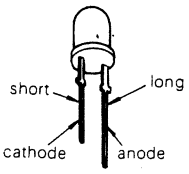
2SA1015
2SC1364
2SC1815-GR
2SC2545



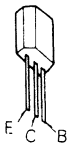
2SK246



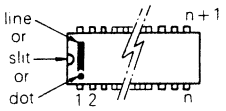
GL5EG521-B



2SA1026-7

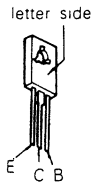


NE5532P
TL082CP
TL4558P-B

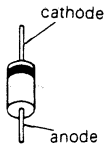


(Top view)

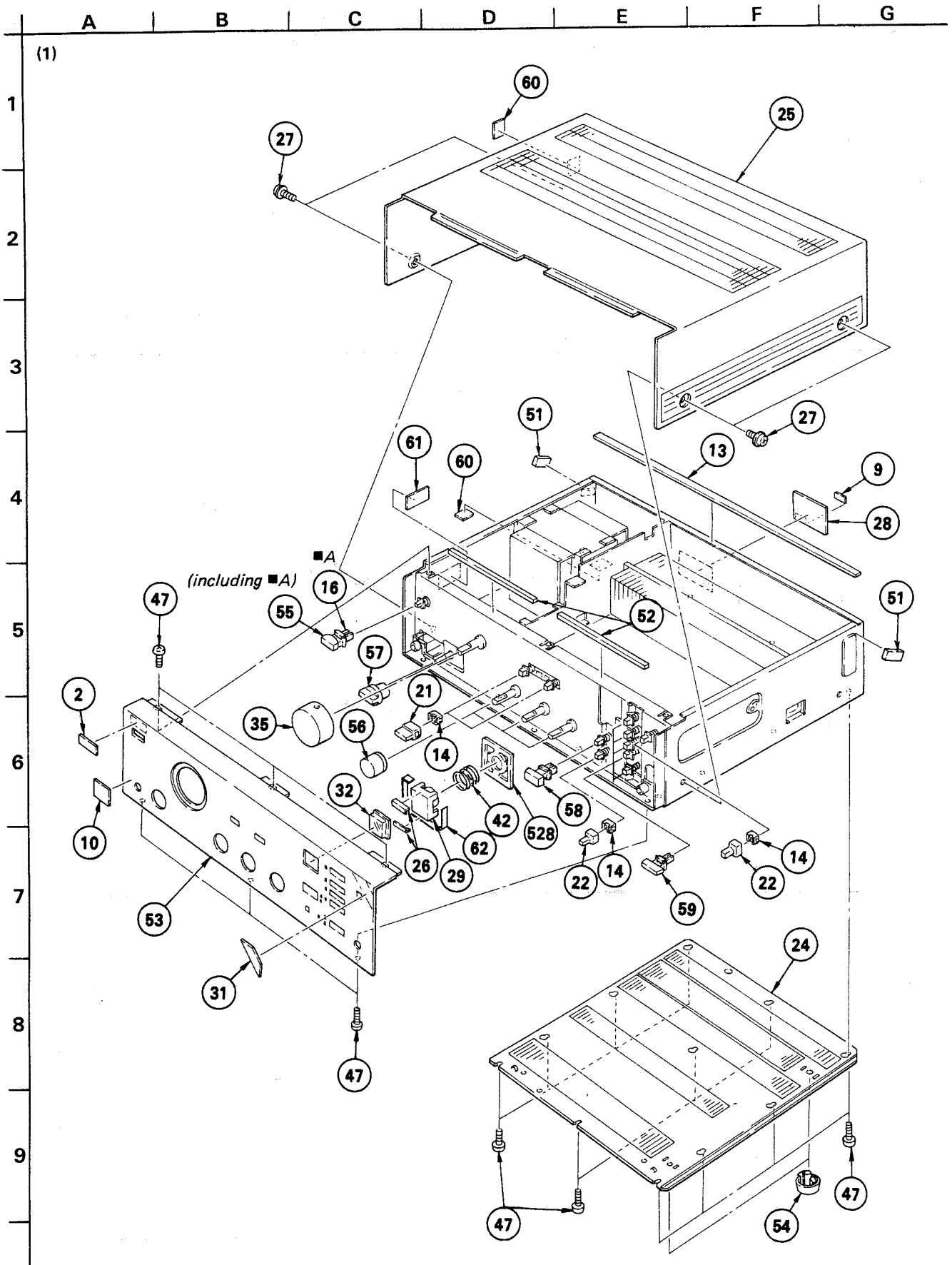
2SA1142
2SA1220A
2SB731
2SC2682
2SC2690A-Q
2SD809

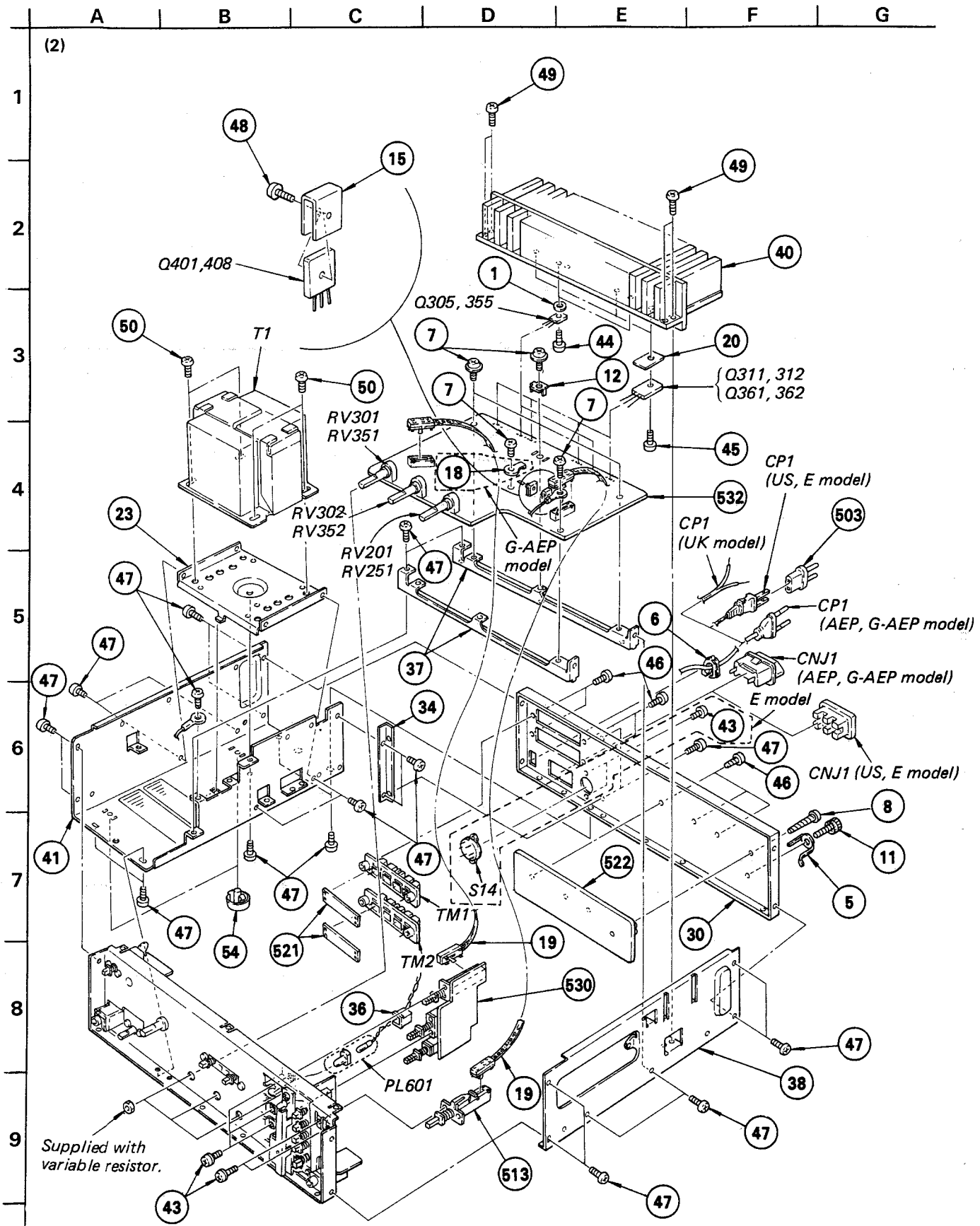


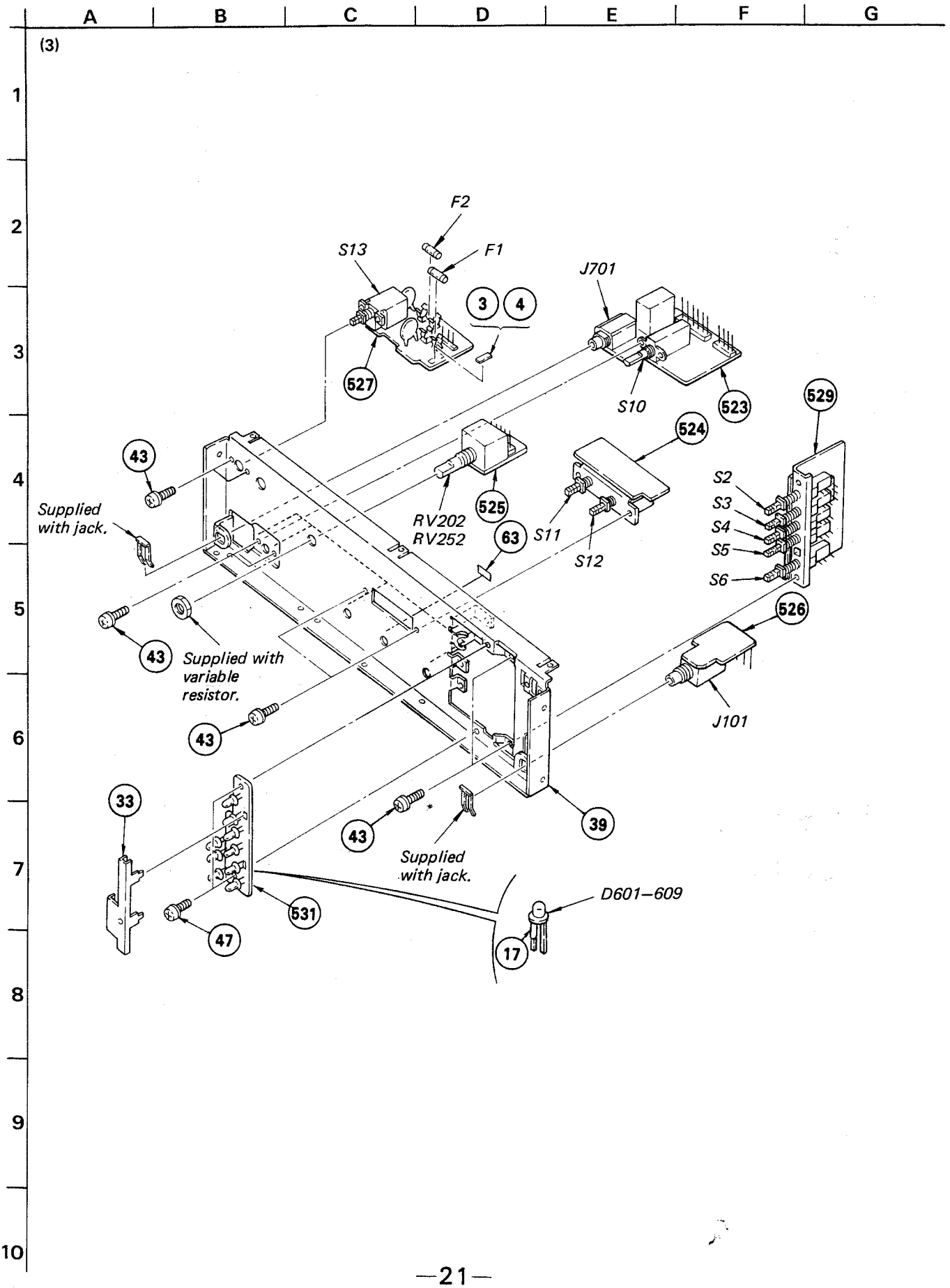
10E2
30DL4
1S953-7
HZ6A2L
HZ7B1L



SECTION 5
EXPLODED VIEWS AND PARTS LIST




A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
10
(2)
Q401,408
Q305, 355
T1
RV301
RV351
RV302
RV352
RV201
RV251
G-AEP
model
Q311, 312
Q361, 362
CP1
(US, E model)
CP1
(UK model)
CP1
(AEP, G-AEP model)
CNJ1
(AEP, G-AEP model)
E model
CNJ1 (US, E model)
S14
TM1
TM2
PL601
Supplied with
variable resistor.


A
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F2
F1
S13
J701
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527
523
529
524
S10
43
525
S2
S3
S4
S5
S6
Supplied with jack.
RV202
RV252
63
S11
S12
526
43
Supplied with variable resistor.
J101
43
33
39
43
Supplied with jack.
D601–609
531
47
17

GENERAL SECTION

No.	Part No.	Description
1	3-572-365-01	SHEET (A), INSULATING
2 ♦	3-701-690-00	(UK).....LABEL, MADE IN JAPAN
3	3-701-948-18	(AEP,G-AEP)...LABEL, FUSE
4	3-701-948-19	(E).....LABEL, FUSE
5	3-701-993-00	SPACER, TERMINAL
6	3-703-244-00	(AEP,G-AEP,UK)...BUSHING, CORD
6	3-703-571-00	(US,E).....BUSHING, CORD
7	3-703-249-01	SCREW, S TIGHT, +PTTWH 3X6
8	3-703-473-00	SCREW, TERMINAL
9 ♦	3-703-591-02	(G-AEP)....LABEL (23585S) (SMALL), FTZ
10	3-703-710-01	STICKER, SONY SYMBOL (12)
11	3-706-165-00	SCREW
12 ♦	4-835-639-00	PLATE, GROUND
13	4-848-642-00	CUSHION, VIBRATION
14	4-864-307-00	RING
15 ♦	4-866-080-00	HEAT SINK
16	4-866-342-00	JOINT (B), KNOB
17	4-866-397-00	CUSHION, LED
18	4-870-539-00	(G-AEP)....PLATE, GROUND
19	4-873-753-21	BAND, JOINT
20	4-875-726-00	SHEET, INSULATING
21	4-881-704-91	KNOB, SQUARE (5X16)
22	4-881-705-11	KNOB (5X6), SQUARE
23 ♦	4-885-916-00	BRACKET, TRANSFORMER
24 ♦	4-885-922-00	PLATE, BOTTOM
25	4-885-927-11	CASE
26	4-886-031-00	CHIP, ADHESIVE
27	4-889-321-01	SCREW
28	4-889-802-00	(US).....LABEL, MODEL NUMBER
28	4-889-804-00	(AEP,G-AEP)...LABEL, MODEL NUMBER
28	4-889-805-00	(UK).....LABEL, MODEL NUMBER
28	4-889-806-00	(E).....LABEL, MODEL NUMBER
29	4-889-808-00	JOINT, CD
30 ♦	4-889-810-01	(US).....PLATE, JACK
30 ♦	4-889-810-11	(AEP,G-AEP)....PLATE, JACK
30 ♦	4-889-810-21	(UK).....PLATE, JACK
30 ♦	4-889-810-31	(E).....PLATE, JACK
31	4-889-813-00	STICKER (C)
32	4-889-814-00	KNOB, CD C
33 ♦	4-889-815-00	BRACKET, LED
34 ♦	4-889-819-00	BRACKET
35	4-889-820-00	KNOB (DIA. 48), R H
36	4-889-823-00	JOINT, KNOB
37 ♦	4-889-824-00	CHANNEL
38 ♦	4-889-826-00	PLATE, SIDE, RIGHT
39 ♦	4-889-827-00	PANEL, SUB

GENERAL SECTION

No.	Part No.	Description
40 ♦	4-889-828-00	HEAT SINK
41 ♦	4-889-829-00	PLATE, SIDE, LEFT
42	4-889-830-00	SPRING, COMPRESSION
43	7-682-647-01	SCREW +PS 3X6
44	7-682-649-01	SCREW +PS 3X10
45	7-682-950-01	SCREW +PSW 3X12
46	7-685-646-11	SCREW +BVTP 3X8 TYPE2 N-S
47	7-685-871-01	SCREW +BVTT 3X6 (S)
48	7-685-872-01	SCREW +BVTT 3X8 (S)
49	7-685-873-01	SCREW +BVTT 3X10 (S)
50	7-685-880-01	SCREW +BVTT 4X6 (S)
51	9-911-841-XX	CUSHION
52	9-911-845-XX	CUSHION
53	A-4322-525-A	PANEL ASSY
54	X-4864-303-0	FOOT ASSY
55	X-4886-102-0	KNOB ASSY, POWER C
56	X-4889-801-0	KNOB (DIA. 24) ASSY, R D
57	X-4889-802-0	KNOB ASSY, SPEAKER E
58	X-4889-803-0	KNOB ASSY, SQUARE C
59	X-4889-804-0	KNOB ASSY, SQUARE C
60 ♦	3-703-680-00	(US)...LABEL, CAUTION, SUB, NEW UL
61 ♦	3-703-044-26	(US)...LABEL, CAUTION
62	4-889-835-00	SLIDER (A)
63	9-911-863-XX	SPACER

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
101	3-701-630-00	BAG, POLYETHYLENE
102	3-703-390-00	(US)... INSTRUCTION, IMPORTANT
103	3-773-497-11	(AEP,UK,E)....MANUAL, INSTRUCTION
104	3-773-497-21	(US).....MANUAL, INSTRUCTION
105	3-773-497-41	(AEP,G-AEP)...MANUAL, INSTRUCTION F
106	4-858-078-00	SHEET, PROTECTION
107	4-885-931-00	CUSHION, RIGHT
108	4-885-932-00	CUSHION, LEFT
109	4-885-933-00	CUSHION, UPPER
110	4-889-831-00	CARTON

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- All resistors are in ohms.
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- MMH : mH, UH : μH

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In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC,
UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	♦;1-508-810-00	14MM BASE POST
502	♦;1-508-811-00	BASE POST (14MM) 4P
503	⚠1-526-565-00	(E1)...ADAPTOR, AC PLUG
504	1-533-131-00	HOLDER, FUSE
505	♦;1-535-115-00	TERMINAL
506	♦;1-535-116-00	TERMINAL
507	♦;1-535-117-00	TERMINAL
508	♦;1-535-119-00	TERMINAL
509	♦;1-535-121-00	TERMINAL
510	♦;1-535-139-00	BASE POST 19MM (10MM PITCH)
511	♦;1-535-141-00	BASE POST 19MM (10MM PITCH)
512	♦;1-535-416-00	TERMINAL
513	1-554-549-00	SWITCH, PUSH S1 (CARTRIDGE) DRIVE
514	♦;1-560-063-00	PIN, CONNECTOR 5P
515	♦;1-560-063-21	PIN, CONNECTOR 5P
516	♦;1-560-063-31	PIN, CONNECTOR 5P
517	♦;1-562-249-00	SOCKET, CONNECTOR 4P
518	♦;1-562-250-00	SOCKET, CONNECTOR 5P
519	♦;1-562-327-00	SOCKET, CONNECTOR 3P
520	♦;1-562-328-00	SOCKET, CONNECTOR 7P
521	♦;1-607-763-00	(G-AEP)...PC BOARD, OUT PUT
522	♦;1-610-682-00	PC BOARD, INPUT
523	♦;1-610-683-00	PC BOARD, HEADPHONE
524	♦;1-610-684-00	PC BOARD, GR
525	♦;1-610-685-00	PC BOARD, VR
526	♦;1-610-686-00	PC BOARD, AUX
527	♦;1-610-687-00	PC BOARD, AC SWITCH
528	♦;1-610-688-00	PC BOARD, STOPPER
529	♦;1-610-689-00	PC BOARD, FUNCTION
530	♦;1-610-690-00	PC BOARD, MONITOR
531	♦;1-610-691-00	PC BOARD, LED
532	♦;A-4388-353-A	(US).....MOUNTED PCB, MAIN
532	♦;A-4388-354-A	(AEP,UK,E)...MOUNTED PCB, MAIN
532	♦;A-4388-355-A	(G-AEP).....MOUNTED PCB, MAIN
C01	1-161-317-00	(G-AEP)...CERAMIC 330PF 10% 50V
C02	1-161-317-00	(G-AEP)...CERAMIC 330PF 10% 50V
C03	1-161-317-00	(G-AEP)...CERAMIC 330PF 10% 50V
C04	1-161-317-00	(G-AEP)...CERAMIC 330PF 10% 50V
C05	1-161-317-00	(G-AEP)...CERAMIC 330PF 10% 50V
C06	1-161-317-00	(G-AEP)...CERAMIC 330PF 10% 50V
C07	1-161-317-00	(G-AEP)...CERAMIC 330PF 10% 50V
C08	1-161-494-00	CERAMIC 0.022MF 30% 25V
C09	1-161-271-00	CERAMIC 100PF 5% 50V
C10	1-161-494-00	(G-AEP)...CERAMIC 0.022MF 30% 25V
C51	1-161-317-00	(G-AEP)...CERAMIC 330PF 10% 50V
C52	1-161-317-00	(G-AEP)...CERAMIC 330PF 10% 50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C53	1-161-317-00	(G-AEP)...CERAMIC 330PF 10% 50V
C54	1-161-317-00	(G-AEP)...CERAMIC 330PF 10% 50V
C55	1-161-317-00	(G-AEP)...CERAMIC 330PF 10% 50V
C56	1-161-317-00	(G-AEP)...CERAMIC 330PF 10% 50V
C57	1-161-317-00	(G-AEP)...CERAMIC 330PF 10% 50V
C59	1-161-271-00	CERAMIC 100PF 5% 50V
C101	1-161-317-00	CERAMIC 330PF 10% 50V
C102	1-123-356-00	ELECT 10MF 20% 25V
C103	1-161-326-00	CERAMIC 0.0022MF 30% 50V
C104	1-123-300-00	ELECT 2200MF 20% 6.3V
C105	1-130-765-00	FILM 0.056MF 2% 100V
C106	1-130-764-00	FILM 0.016MF 2% 100V
C107	1-123-328-00	ELECT 4.7MF 20% 25V
C108	1-123-307-00	ELECT 100MF 20% 10V
C109	1-130-636-00	FILM 0.22MF 5% 50V
C151	1-161-317-00	CERAMIC 330PF 10% 50V
C152	1-123-356-00	ELECT 10MF 20% 25V
C153	1-161-326-00	CERAMIC 0.0022MF 30% 50V
C154	1-123-300-00	ELECT 2200MF 20% 6.3V
C155	1-130-765-00	FILM 0.056MF 2% 100V
C156	1-130-764-00	FILM 0.016MF 2% 100V
C157	1-123-328-00	ELECT 4.7MF 20% 25V
C158	1-123-307-00	ELECT 100MF 20% 10V
C159	1-130-636-00	FILM 0.22MF 5% 50V
C201	1-123-353-00	ELECT 2.2MF 20% 50V
C202	1-124-182-00	ELECT 1MF 20% 50V
C204	1-123-307-00	ELECT 100MF 20% 10V
C205	1-161-494-00	(G-AEP)..CERAMIC 0.022MF 30% 25V
C206	1-161-263-00	(G-AEP)..CERAMIC 22PF 5% 50V
C251	1-123-353-00	ELECT 2.2MF 20% 50V
C252	1-124-182-00	ELECT 1MF 20% 50V
C256	1-161-263-00	(G-AEP)..CERAMIC 22PF 5% 50V
C301	1-123-356-00	ELECT 10MF 20% 25V
C302	1-161-268-00	(G-AEP)..CERAMIC 56PF 5% 50V
C303	1-161-319-00	CERAMIC 470PF 10% 50V
C304	1-123-296-00	ELECT 220MF 20% 6.3V
C305	1-161-257-00	CERAMIC 6.8PF 10% 50V
C306	1-123-332-00	ELECT 47MF 20% 25V
C307	1-123-332-00	ELECT 47MF 20% 25V
C308	1-123-902-00	ELECT 0.68MF 20% 50V
C309	1-108-599-00	MYLAR 0.068MF 5% 50V
C310	1-108-599-00	MYLAR 0.068MF 5% 50V
C311	1-161-327-00	CERAMIC 0.0033MF 30% 50V
C312	1-161-328-00	CERAMIC 0.0047MF 30% 50V
C313	1-107-279-91	MICA 10PF 0.5PF 100V

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UPD···: μPD···

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C314	1-123-294-00	ELECT 47MF 20% 6.3V
C315	1-161-272-00	CERAMIC 120PF 5% 50V
C316	1-108-599-00	(AEP,G-AEP,UK,E)...MYLAR 0.068MF 5% 50V
C317	1-108-591-00	(US).....FILM 0.033MF 5% 50V
C317	1-108-599-00	(AEP,G-AEP,UK,E)...MYLAR 0.068MF 5% 50V
C318	1-161-265-00	(US,AEP,UK,E)..CERAMIC 33PF 5% 50V
C318	1-161-268-00	(G-AEP)...CERAMIC 56PF 5% 50V
C320	1-161-494-00	(G-AEP)...CERAMIC 0.022MF 30% 25V
C321	1-161-271-00	(G-AEP)...CERAMIC 100PF 5% 50V
C351	1-123-356-00	ELECT 10MF 20% 25V
C352	1-161-268-00	(G-AEP)...CERAMIC 56PF 5% 50V
C353	1-161-319-00	CERAMIC 470PF 10% 50V
C354	1-123-296-00	ELECT 220MF 20% 6.3V
C355	1-161-257-00	CERAMIC 6.8PF 10% 50V
C356	1-123-332-00	ELECT 47MF 20% 25V
C357	1-123-332-00	ELECT 47MF 20% 25V
C358	1-123-902-00	ELECT 0.68MF 20% 50V
C359	1-108-599-00	MYLAR 0.068MF 5% 50V
C360	1-108-599-00	MYLAR 0.068MF 5% 50V
C361	1-161-327-00	CERAMIC 0.0033MF 30% 50V
C362	1-161-328-00	CERAMIC 0.0047MF 30% 50V
C363	1-107-279-91	MICA 10PF 0.5PF 100V
C364	1-123-294-00	ELECT 47MF 20% 6.3V
C365	1-161-272-00	CERAMIC 120PF 5% 50V
C366	1-108-599-00	(AEP,G-AEP,UK,E)...MYLAR 0.068MF 5% 50V
C367	1-108-591-00	(US).....FILM 0.033MF 5% 50V
C367	1-108-599-00	(AEP,G-AEP,UK,E)...MYLAR 0.068MF 5% 50V
C368	1-161-265-00	(US,AEP,UK,E)...CERAMIC 33PF 5% 50V
C368	1-161-268-00	(G-AEP)...CERAMIC 56PF 5% 50V
C370	1-161-494-00	(G-AEP)...CERAMIC 0.022MF 30% 25V
C371	1-161-271-00	(G-AEP)...CERAMIC 100PF 5% 50V
C401	⚠1-102-394-00	CERAMIC 0.01X2 250V
C402	⚠1-125-346-00	ELECT(BLOCK) 15000MF 99% 56V
C403	⚠1-125-346-00	ELECT(BLOCK) 15000MF 99% 56V
C404	1-161-271-00	CERAMIC 100PF 5% 50V
C405	1-123-306-00	ELECT 47MF 20% 10V
C406	1-161-271-00	CERAMIC 100PF 5% 50V
C407	1-123-323-00	ELECT 470MF 20% 16V
C408	1-123-323-00	ELECT 470MF 20% 16V
C409	1-123-360-00	ELECT 100MF 20% 50V
C410	1-123-360-00	ELECT 100MF 20% 50V
C501	1-123-382-00	ELECT 3.3MF 20% 63V
C502	1-108-567-00	MYLAR 0.0033MF 5% 50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C503	1-123-296-00	ELECT 220MF 20% 6.3V
C504	1-123-296-00	ELECT 220MF 20% 6.3V
C601	1-123-311-00	ELECT 1000MF 20% 10V
C701	1-161-494-00	CERAMIC 0.022MF 30% 25V
C751	1-161-494-00	(G-AEP)...CERAMIC 0.022MF 30% 25V
C801	1-161-330-00	(G-AEP)...CERAMIC 0.01MF 30% 25V
C802	1-161-330-00	(G-AEP)...CERAMIC 0.01MF 30% 25V
C803	1-161-330-00	(G-AEP)...CERAMIC 0.01MF 30% 25V
C804	1-161-330-00	(G-AEP)...CERAMIC 0.01MF 30% 25V
C851	1-161-330-00	(G-AEP)...CERAMIC 0.01MF 30% 25V
C852	1-161-330-00	(G-AEP)...CERAMIC 0.01MF 30% 25V
C853	1-161-330-00	(G-AEP)...CERAMIC 0.01MF 30% 25V
C854	1-161-330-00	(G-AEP)...CERAMIC 0.01MF 30% 25V
C901	⚠1-161-744-00	(AEP,G-AEP,UK,E)...CERAMIC 0.01MF 400V
C901	⚠1-161-749-00	(US).....FILM 0.01MF 125V
C902	⚠1-161-744-00	(AEP,G-AEP,UK)....CERAMIC 0.01MF 400V
CNJ1	⚠1-526-574-00	(US,E).....OUTLET, AC
CNJ1	⚠1-526-694-00	(AEP,G-AEP)...OUTLET, AC
CNJ101	1-507-741-21	JACK, PIN 6P
CNJ102	1-507-741-21	JACK, PIN 6P
CNJ103	1-507-741-21	JACK, PIN 6P
CNJ104	1-507-740-00	JACK, PIN 4P
CNJ105	1-507-740-00	JACK, PIN 4P
CNJ106	1-507-740-00	JACK, PIN 4P
CNJ107	1-507-740-00	JACK, PIN 4P
CNJ108	1-507-887-00	JACK, PIN 6P
CNJ109	1-507-887-00	JACK, PIN 6P
CNJ110	1-507-887-00	JACK, PIN 6P
CNJ151	1-507-741-21	JACK, PIN 6P
CNJ152	1-507-741-21	JACK, PIN 6P
CNJ153	1-507-741-21	JACK, PIN 6P
CNJ154	1-507-740-00	JACK, PIN 4P
CNJ155	1-507-740-00	JACK, PIN 4P
CNJ156	1-507-740-00	JACK, PIN 4P
CNJ157	1-507-740-00	JACK, PIN 4P
CNJ158	1-507-887-00	JACK, PIN 6P
CNJ159	1-507-887-00	JACK, PIN 6P
CNJ160	1-507-887-00	JACK, PIN 6P
CP1	⚠1-534-817-XX	(AEP,G-AEP)...CORD, POWER, EULO PLUG
CP1	⚠1-551-472-00	(E).....CORD, POWER
CP1	⚠1-551-628-00	(US).....CORD, POWER
CP1	⚠1-551-884-00	(UK).....CORD, POWER

E

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
D101	8-719-910-74	DIODE HZ7B1L
D151	8-719-910-74	DIODE HZ7B1L
D201	8-719-107-57	DIODE 1S953-7
D251	8-719-107-57	DIODE 1S953-7
D301	8-719-107-57	DIODE 1S953-7
D302	8-719-910-62	DIODE HZ6A2L
D303	8-719-107-57	DIODE 1S953-7
D304	8-719-107-57	DIODE 1S953-7
D351	8-719-107-57	DIODE 1S953-7
D352	8-719-910-62	DIODE HZ6A2L
D353	8-719-107-57	DIODE 1S953-7
D354	8-719-107-57	DIODE 1S953-7
D401 ⚠	8-719-230-24	DIODE 30DL4
D402 ⚠	8-719-230-24	DIODE 30DL4
D403 ⚠	8-719-230-24	DIODE 30DL4
D404 ⚠	8-719-230-24	DIODE 30DL4
D405	8-719-910-74	DIODE HZ7B1L
D501	8-719-200-02	DIODE 10E-2
D502	8-719-910-62	DIODE HZ6A2L
D503	8-719-107-57	DIODE 1S953-7
D504	8-719-107-57	(AEP) ... DIODE 1S953-7
D601	8-719-907-92	DIODE GL-5EG521-B
D602	8-719-907-92	DIODE GL-5EG521-B
D603	8-719-907-92	DIODE GL-5EG521-B
D604	8-719-907-92	DIODE GL-5EG521-B
D605	8-719-907-92	DIODE GL-5EG521-B
D606	8-719-907-92	DIODE GL-5EG521-B
D607	8-719-907-92	DIODE GL-5EG521-B
D608	8-719-907-92	DIODE GL-5EG521-B
D609	8-719-906-58	DIODE GL-5HD21
D610	8-719-200-02	DIODE 10E-2
F1 ⚠	1-532-237-00	(E)....FUSE, TIME-LAG 3.15A
F1 ⚠	1-532-286-00	(AEP,G-AEP)....FUSE, TIME-LAG 2.5A C
F1 ⚠	1-532-509-00	(US).....FUSE, GALSS TUBE 6.3A
F2 ⚠	1-532-237-00	(AEP,G-AEP,UK,E)...FUSE, TIME-LAG 3.15A B
IC101	8-759-935-58	IC TL4558P-8 C
IC201	8-759-900-72	IC NE5532P E
• IC202	8-759-990-82	IC TL082CP G
IC251	8-759-900-72	IC NE5532P
J101	1-507-729-00	JACK, LARGE TYPE, AUX
J701	1-507-669-00	JACK, HEADPHONE
L01	1-413-101-00	(G-AEP)...COIL, INPUT, 220MH
L51	1-413-101-00	(G-AEP)...COIL, INPUT, 220MH
L101	1-407-519-00	(AEP,UK,US,E)...INDUCTOR, 8MH
L101	1-413-101-00	(G-AEP)...COIL, INPUT, 220MH

ELECTRICAL PARTS

Ref.No.	Part No.	Description
L151	1-407-519-00	(AEP,UK,US,E)...INDUCTOR, 8MH
L151	1-413-101-00	(G-AEP)...COIL, INPUT, 220MH
L701 ♦	1-420-872-00	COIL, AIR CORE, 1.2MH
L751 ♦	1-420-872-00	COIL, AIR CORE, 1.2MH
• PL601	1-518-538-00	LAMP, PILOT B
PS601	1-532-675-00	(AEP,G-AEP,UK,E)...LINK, IC
Q101	8-729-354-52	TRANSISTOR 2SC2545
Q102	8-729-354-52	TRANSISTOR 2SC2545
Q151	8-729-354-52	TRANSISTOR 2SC2545
Q152	8-729-354-52	TRANSISTOR 2SC2545
Q301	8-729-697-92	TRANSISTOR 2SA979
Q302	8-729-281-53	TRANSISTOR 2SC1815-GR
Q303	8-729-281-53	TRANSISTOR 2SC1815-GR
Q304	8-729-114-22	TRANSISTOR 2SA1142
Q305	8-729-180-93	TRANSISTOR 2SD809
Q306	8-729-168-22	TRANSISTOR 2SC2682
Q307	8-729-663-47	TRANSISTOR 2SC1364
Q308	8-729-602-67	TRANSISTOR 2SA1026-7
Q309	8-729-102-39	TRANSISTOR 2SC2690A-Q
Q310	8-729-122-02	TRANSISTOR 2SA1220A
Q311	8-729-201-97	TRANSISTOR 2SC3182
Q312	8-729-201-89	TRANSISTOR 2SA1265
Q351	8-729-697-92	TRANSISTOR 2SA979
Q352	8-729-281-53	TRANSISTOR 2SC1815-GR
Q353	8-729-281-53	TRANSISTOR 2SC1815-GR
Q354	8-729-114-22	TRANSISTOR 2SA1142
Q355	8-729-180-93	TRANSISTOR 2SD809
Q356	8-729-168-22	TRANSISTOR 2SC2682
Q357	8-729-663-47	TRANSISTOR 2SC1364
Q358	8-729-602-67	TRANSISTOR 2SA1026-7
Q359	8-729-102-39	TRANSISTOR 2SC2690A-Q
Q360	8-729-122-02	TRANSISTOR 2SA1220A
Q361	8-729-201-97	TRANSISTOR 2SC3182
Q362	8-729-201-89	TRANSISTOR 2SA1265
Q401	8-729-180-93	TRANSISTOR 2SD809
Q402	8-729-281-53	TRANSISTOR 2SC1815-GR
Q403	8-729-224-61	TRANSISTOR 2SK246
Q404	8-729-281-53	TRANSISTOR 2SC1815-GR
Q405	8-729-201-52	TRANSISTOR 2SA1015
Q406	8-729-224-61	TRANSISTOR 2SK246
Q407	8-729-201-52	TRANSISTOR 2SA1015
Q408	8-729-173-13	TRANSISTOR 2SB731
Q501	8-729-663-47	TRANSISTOR 2SC1364
Q502	8-729-602-67	TRANSISTOR 2SA1026-7
Q503	8-729-281-53	TRANSISTOR 2SC1815-GR

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In each case, U : μ, for example:
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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q504	8-729-281-53	TRANSISTOR 2SC1815-GR			
Q505	8-729-281-53	TRANSISTOR 2SC1815-GR			
Q506	8-729-281-53	TRANSISTOR 2SC1815-GR			
Q507	8-729-201-52	TRANSISTOR 2SA1015			
Q557	8-729-201-52	TRANSISTOR 2SA1015			
R01	1-246-461-00	(G-AEP)...CARBON	330	5%	1/4W
R02	1-246-465-00	(G-AEP)...CARBON	470	5%	1/4W
R03	1-246-465-00	(G-AEP)...CARBON	470	5%	1/4W
R04	1-246-465-00	(G-AEP)...CARBON	470	5%	1/4W
R05	1-246-489-00	CARBON 4.7K	5%	1/4W	
R06	1-246-465-00	(G-AEP)...CARBON	470	5%	1/4W
R07	1-246-489-00	CARBON 4.7K	5%	1/4W	
R08	1-246-465-00	(G-AEP)...CARBON	470	5%	1/4W
R09	1-246-465-00	(G-AEP)...CARBON	470	5%	1/4W
R10	1-246-489-00	CARBON 4.7K	5%	1/4W	
R11	1-246-545-00	CARBON 1M	5%	1/4W	
R12	1-246-465-00	CARBON 470	5%	1/4W	
R13	1-246-545-00	CARBON 1M	5%	1/4W	
R14	1-246-545-00	CARBON 1M	5%	1/4W	
R15	1-246-545-00	CARBON 1M	5%	1/4W	
R16	1-246-545-00	CARBON 1M	5%	1/4W	
R17	1-246-545-00	CARBON 1M	5%	1/4W	
R18	1-246-545-00	CARBON 1M	5%	1/4W	
R51	1-246-461-00	(G-AEP)...CARBON	330	5%	1/4W
R52	1-246-465-00	(G-AEP)...CARBON	470	5%	1/4W
R53	1-246-465-00	(G-AEP)...CARBON	470	5%	1/4W
R54	1-246-465-00	(G-AEP)...CARBON	470	5%	1/4W
R55	1-246-489-00	CARBON 4.7K	5%	1/4W	
R56	1-246-465-00	(G-AEP)...CARBON	470	5%	1/4W
R57	1-246-489-00	CARBON 4.7K	5%	1/4W	
R58	1-246-465-00	(G-AEP)...CARBON	470	5%	1/4W
R59	1-246-465-00	(G-AEP)...CARBON	470	5%	1/4W
R61	1-246-545-00	CARBON 1M	5%	1/4W	
R62	1-246-465-00	CARBON 470	5%	1/4W	
R63	1-246-545-00	CARBON 1M	5%	1/4W	
R64	1-246-545-00	CARBON 1M	5%	1/4W	
R65	1-246-545-00	CARBON 1M	5%	1/4W	
R66	1-246-545-00	CARBON 1M	5%	1/4W	
R67	1-246-545-00	CARBON 1M	5%	1/4W	
R68	1-246-545-00	CARBON 1M	5%	1/4W	
R101	1-246-461-00	CARBON 330	5%	1/4W	
R102	1-246-521-00	CARBON 100K	5%	1/4W	
R103	1-246-449-00	CARBON 100	5%	1/4W	
R104	1-246-421-00	CARBON 6.8	5%	1/4W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R105	1-246-457-00	CARBON	220	5%	1/4W
R106	1-246-521-00	CARBON	100K	5%	1/4W
R107	1-246-473-00	CARBON	1K	5%	1/4W
R108	1-246-473-00	CARBON	1K	5%	1/4W
R109	1-246-453-00	CARBON	150	5%	1/4W
R110	1-246-497-00	CARBON	10K	5%	1/4W
R111	1-246-449-00	CARBON	100	5%	1/4W
R112	1-246-488-00	CARBON	4.3K	5%	1/4W
R113	1-214-771-00	METAL	56K	1%	1/4W
R114	1-214-745-00	METAL	4.7K	1%	1/4W
R115	1-246-521-00	CARBON	100K	5%	1/4W
R116	1-246-457-00	CARBON	220	5%	1/4W
R151	1-246-461-00	CARBON	330	5%	1/4W
R152	1-246-521-00	CARBON	100K	5%	1/4W
R153	1-246-449-00	CARBON	100	5%	1/4W
R154	1-246-421-00	CARBON	6.8	5%	1/4W
R155	1-246-457-00	CARBON	220	5%	1/4W
R156	1-246-521-00	CARBON	100K	5%	1/4W
R157	1-246-473-00	CARBON	1K	5%	1/4W
R158	1-246-473-00	CARBON	1K	5%	1/4W
R159	1-246-453-00	CARBON	150	5%	1/4W
R160	1-246-497-00	CARBON	10K	5%	1/4W
R161	1-246-449-00	CARBON	100	5%	1/4W
R162	1-246-488-00	CARBON	4.3K	5%	1/4W
R163	1-214-771-00	METAL	56K	1%	1/4W
R164	1-214-745-00	METAL	4.7K	1%	1/4W
R165	1-246-521-00	CARBON	100K	5%	1/4W
R166	1-246-457-00	CARBON	220	5%	1/4W
R201	1-246-537-00	CARBON	470K	5%	1/4W
R202	1-214-721-00	METAL	470	1%	1/4W
R203	1-214-733-00	METAL	1.5K	1%	1/4W
R204	1-246-497-00	CARBON	10K	5%	1/4W
R205	1-214-727-00	METAL	820	1%	1/4W
R206	1-214-727-00	METAL	820	1%	1/4W
R207	1-246-521-00	CARBON	100K	5%	1/4W
R208	1-246-473-00	CARBON	1K	5%	1/4W
R209	1-246-497-00	CARBON	10K	5%	1/4W
R210	1-246-493-00	CARBON	6.8K	5%	1/4W
R211	1-214-733-00	METAL	1.5K	1%	1/4W
R251	1-246-537-00	CARBON	470K	5%	1/4W
R252	1-214-721-00	METAL	470	1%	1/4W
R253	1-214-733-00	METAL	1.5K	1%	1/4W
R254	1-246-497-00	CARBON	10K	5%	1/4W
R255	1-214-727-00	METAL	820	1%	1/4W
R256	1-214-727-00	METAL	820	1%	1/4W

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- All resistors are in ohms.
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ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R257	1-246-521-00	CARBON	100K	5%	1/4W	
R258	1-246-473-00	CARBON	1K	5%	1/4W	
R259	1-246-497-00	CARBON	10K	5%	1/4W	
R260	1-246-493-00	CARBON	6.8K	5%	1/4W	
R261	1-214-733-00	METAL	1.5K	1%	1/4W	
R301	1-246-473-00	CARBON	1K	5%	1/4W	
R302	1-246-517-00	CARBON	68K	5%	1/4W	
R303	1-246-493-00	CARBON	6.8K	5%	1/4W	
R304	1-246-472-00	CARBON	910	5%	1/4W	
R305 ⚠	1-247-115-00	CARBON	220	5%	1/4W	F
R306 ⚠	1-247-115-00	CARBON	220	5%	1/4W	F
R307	1-246-483-00	CARBON	2.7K	5%	1/4W	
R308	1-246-489-00	CARBON	4.7K	5%	1/4W	
R309	1-246-516-00	CARBON	62K	5%	1/4W	
R310	1-246-469-00	CARBON	680	5%	1/4W	
R311	1-246-491-00	CARBON	5.6K	5%	1/4W	
R312	1-246-459-00	CARBON	270	5%	1/4W	
R313	1-246-485-00	CARBON	3.3K	5%	1/4W	
R314 ⚠	1-247-107-00	CARBON	100	5%	1/4W	F
R315	1-246-473-00	CARBON	1K	5%	1/4W	
R316	1-246-467-00	CARBON	560	5%	1/4W	
R317 ⚠	1-247-105-00	CARBON	82	5%	1/4W	F
R318 ⚠	1-247-107-00	CARBON	100	5%	1/4W	F
R319	1-246-502-00	CARBON	16K	5%	1/4W	
R320	1-246-501-00	CARBON	15K	5%	1/4W	
R321	1-246-505-00	CARBON	22K	5%	1/4W	
R322 ⚠	1-247-107-00	CARBON	100	5%	1/4W	F
R323 ⚠	1-247-107-00	CARBON	100	5%	1/4W	F
R324	1-246-501-00	CARBON	15K	5%	1/4W	
R325 ⚠	1-247-143-00	CARBON	3.3K	5%	1/4W	F
R326 ⚠	1-247-131-00	CARBON	1K	5%	1/4W	F
R327 ⚠	1-247-131-00	CARBON	1K	5%	1/4W	F
R328 ⚠	1-247-138-00	CARBON	2K	5%	1/4W	F
R329 ⚠	1-247-079-00	CARBON	4.7	5%	1/4W	F
R330 ⚠	1-247-079-00	CARBON	4.7	5%	1/4W	F
R331	1-217-611-00	RES, METAL PLATE 0.1			2W	
R332	1-217-611-00	RES, METAL PLATE 0.1			2W	
R333 ⚠	1-247-123-00	CARBON	470	5%	1/4W	F
R334	1-246-517-00	CARBON	68K	5%	1/4W	
R335	1-246-513-00	CARBON	47K	5%	1/4W	
R336	1-247-192-00	CARBON	10	5%	1/2W	F
R337 ⚠	1-247-228-00	CARBON	330	5%	1/2W	F
R338	1-246-545-00	CARBON	1M	5%	1/4W	
R351	1-246-473-00	CARBON	1K	5%	1/4W	
R352	1-246-517-00	CARBON	68K	5%	1/4W	
R353	1-246-493-00	CARBON	6.8K	5%	1/4W	

ELECTRICAL PARTS

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R354	1-246-472-00	CARBON	910	5%	1/4W	
R355 ⚠	1-247-115-00	CARBON	220	5%	1/4W	F
R356 ⚠	1-247-115-00	CARBON	220	5%	1/4W	F
R357	1-246-483-00	CARBON	2.7K	5%	1/4W	
R358	1-246-489-00	CARBON	4.7K	5%	1/4W	
R359	1-246-516-00	CARBON	62K	5%	1/4W	
R360	1-246-469-00	CARBON	680	5%	1/4W	
R361	1-246-491-00	CARBON	5.6K	5%	1/4W	
R362	1-246-459-00	CARBON	270	5%	1/4W	
R363	1-246-485-00	CARBON	3.3K	5%	1/4W	
R364 ⚠	1-247-107-00	CARBON	100	5%	1/4W	F
R365	1-246-473-00	CARBON	1K	5%	1/4W	
R366	1-246-467-00	CARBON	560	5%	1/4W	
R367 ⚠	1-247-105-00	CARBON	82	5%	1/4W	F
R368 ⚠	1-247-107-00	CARBON	100	5%	1/4W	F
R369	1-246-502-00	CARBON	16K	5%	1/4W	
R370	1-246-501-00	CARBON	15K	5%	1/4W	
R371	1-246-505-00	CARBON	22K	5%	1/4W	
R372 ⚠	1-247-107-00	CARBON	100	5%	1/4W	F
R373 ⚠	1-247-107-00	CARBON	100	5%	1/4W	F
R374	1-246-501-00	CARBON	15K	5%	1/4W	
R375 ⚠	1-247-143-00	CARBON	3.3K	5%	1/4W	F
R376 ⚠	1-247-131-00	CARBON	1K	5%	1/4W	F
R377 ⚠	1-247-131-00	CARBON	1K	5%	1/4W	F
R378 ⚠	1-247-138-00	CARBON	2K	5%	1/4W	F
R379 ⚠	1-247-079-00	CARBON	4.7	5%	1/4W	F
R380 ⚠	1-247-079-00	CARBON	4.7	5%	1/4W	F
R381	1-217-611-00	RES, METAL PLATE 0.1				
R382	1-217-611-00	RES, METAL PLATE 0.1				
R383 ⚠	1-247-123-00	CARBON	470	5%	1/4W	F
R384	1-246-517-00	CARBON	68K	5%	1/4W	
R385	1-246-513-00	CARBON	47K	5%	1/4W	
R386	1-247-192-00	CARBON	10	5%	1/2W	F
R387 ⚠	1-247-228-00	CARBON	330	5%	1/2W	F
R388	1-246-545-00	CARBON	1M	5%	1/4W	
R401 ⚠	1-206-717-00	METAL OXIDE	470	5%	3W	F
R402	1-246-473-00	CARBON	1K	5%	1/4W	
R403	1-246-494-00	CARBON	7.5K	5%	1/4W	
R404	1-246-494-00	CARBON	7.5K	5%	1/4W	
R405	1-246-494-00	CARBON	7.5K	5%	1/4W	
R406	1-246-501-00	CARBON	15K	5%	1/4W	
R407	1-246-500-00	CARBON	13K	5%	1/4W	
R408	1-246-473-00	CARBON	1K	5%	1/4W	
R409 ⚠	1-206-717-00	METAL OXIDE	470	5%	3W	F
R501 ⚠	1-247-079-00	CARBON	4.7	5%	1/4W	F
R502	1-246-501-00	CARBON	15K	5%	1/4W	

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ELECTRICAL PARTS

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R503	1-246-477-00	CARBON	1.5K	5%	1/4W	
R504	1-246-489-00	CARBON	4.7K	5%	1/4W	
R505	1-246-529-00	CARBON	220K	5%	1/4W	
R506	1-246-521-00	CARBON	100K	5%	1/4W	
R507	1-246-544-00	CARBON	910K	5%	1/4W	
R508	1-246-521-00	CARBON	100K	5%	1/4W	
R509	⚠ 1-206-662-00	METAL OXIDE	820	5%	2W	F
R601	1-246-458-00	CARBON	240	5%	1/4W	
R602	1-246-458-00	CARBON	240	5%	1/4W	
R603	1-246-458-00	CARBON	240	5%	1/4W	
R604	1-246-466-00	CARBON	510	5%	1/4W	
R701	1-244-817-00	CARBON	4.7	5%	1/2W	
R702	1-213-139-00	METAL OXIDE	470	5%	1W	F
R751	1-244-817-00	CARBON	4.7	5%	1/2W	
R752	1-213-139-00	METAL OXIDE	470	5%	1W	F
R801	1-244-825-00	(G-AEP)...CARBON	10	5%	1/2W	
R802	1-244-825-00	(G-AEP)...CARBON	10	5%	1/2W	
R851	1-244-825-00	(G-AEP)...CARBON	10	5%	1/2W	
R852	1-244-825-00	(G-AEP)...CARBON	10	5%	1/2W	
RT201	1-226-233-00	RES, ADJ, CARBON 1K				
RT251	1-226-233-00	RES, ADJ, CARBON 1K				
RT301	1-226-232-00	RES, ADJ, CARBON 500				
RT351	1-226-232-00	RES, ADJ, CARBON 500				
RV201	1-230-131-00	RES, VAR, CARBON 50K/50K, BALANCE/L				
RV202	1-230-130-00	RES, VAR, CARBON 10K/10K, ATTENUATOR/L				
RV251	1-230-131-00	RES, VAR, CARBON 50K/50K, BALANCE/R				
RV252	1-230-130-00	RES, VAR, CARBON 10K/10K ATTENUATOR/R				
RV301	1-230-132-00	RES, VAR, CARBON 24.5K/24.5K, BASS/L				
RV302	1-230-133-00	RES, VAR, CARBON 37.2K/37.2K, TREBLE/L				
RV351	1-230-132-00	RES, VAR, CARBON 24.5K/24.5K, BASS/R				
RV352	1-230-133-00	RES, VAR, CARBON 37.2K/37.2K, TREBLE/R				
RY701	1-515-501-00	RELAY				

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S1	1-553-780-00	SWITCH, SLDE (REMOTE), CARTRIDGE
S2	1-554-543-00	SWITCH, PUSH (5 KEY), PHONE
S3	1-554-543-00	SWITCH, PUSH (5 KEY), TUNER
S4	1-554-543-00	SWITCH, PUSH (5 KEY), CD
S5	1-554-543-00	SWITCH, PUSH (5 KEY), AUX
S6	1-554-543-00	SWITCH, PUSH (5 KEY), TAPE
S7	1-554-550-00	SWITCH, PUSH (REMOTE), CD DIRECT
S7	1-554-551-00	SWITCH, SLIDE (REMOTE), CD DIRECT
S8	1-554-547-00	SWITCH, PUSH, MONITOR
S9	1-554-548-00	SWITCH, PUSH, TAPE COPY 1-2
S10	1-554-546-00	SWITCH, ROTARY SLIDE, SPEAKERS
S11	1-554-544-00	SWITCH, PUSH (2 KEY), GRAPHIC EQUALIZER
S12	1-554-544-00	SWITCH, PUSH (2 KEY), SUBSONIC
S13	⚠ 1-552-141-00	(AEP,G-AEP,UK,E)...SWITCH, PUSH, POWER
S13	⚠ 1-552-246-00	(US).....SWITCH, PUSH, POWER
S14	⚠ 1-526-576-31	(E)..SELECTOR, POWER VOLTAGE
T1	⚠ 1-447-627-00	(US).....TRANSFORMER, POWER
T1	⚠ 1-447-628-00	(AEP,G-AEP,UK)...TRANSFORMER, POWER
T1	⚠ 1-447-629-00	(E).....TRANSFORMER, POWER
TM1	1-536-571-00	TERMINAL BOARD, 4P
TM2	1-536-571-00	TERMINAL BOARD, 4P

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC,
UPD···: μPD···

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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